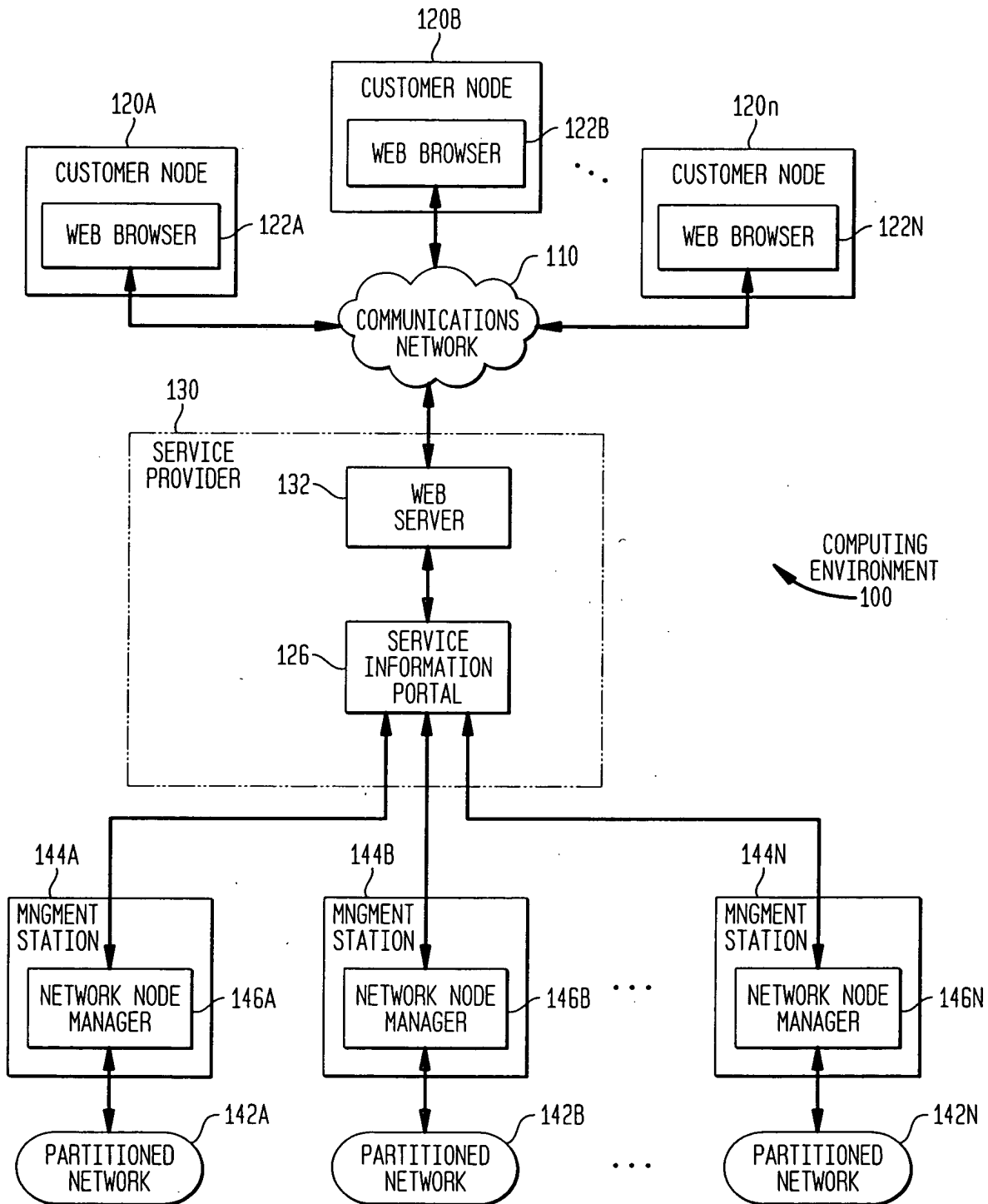


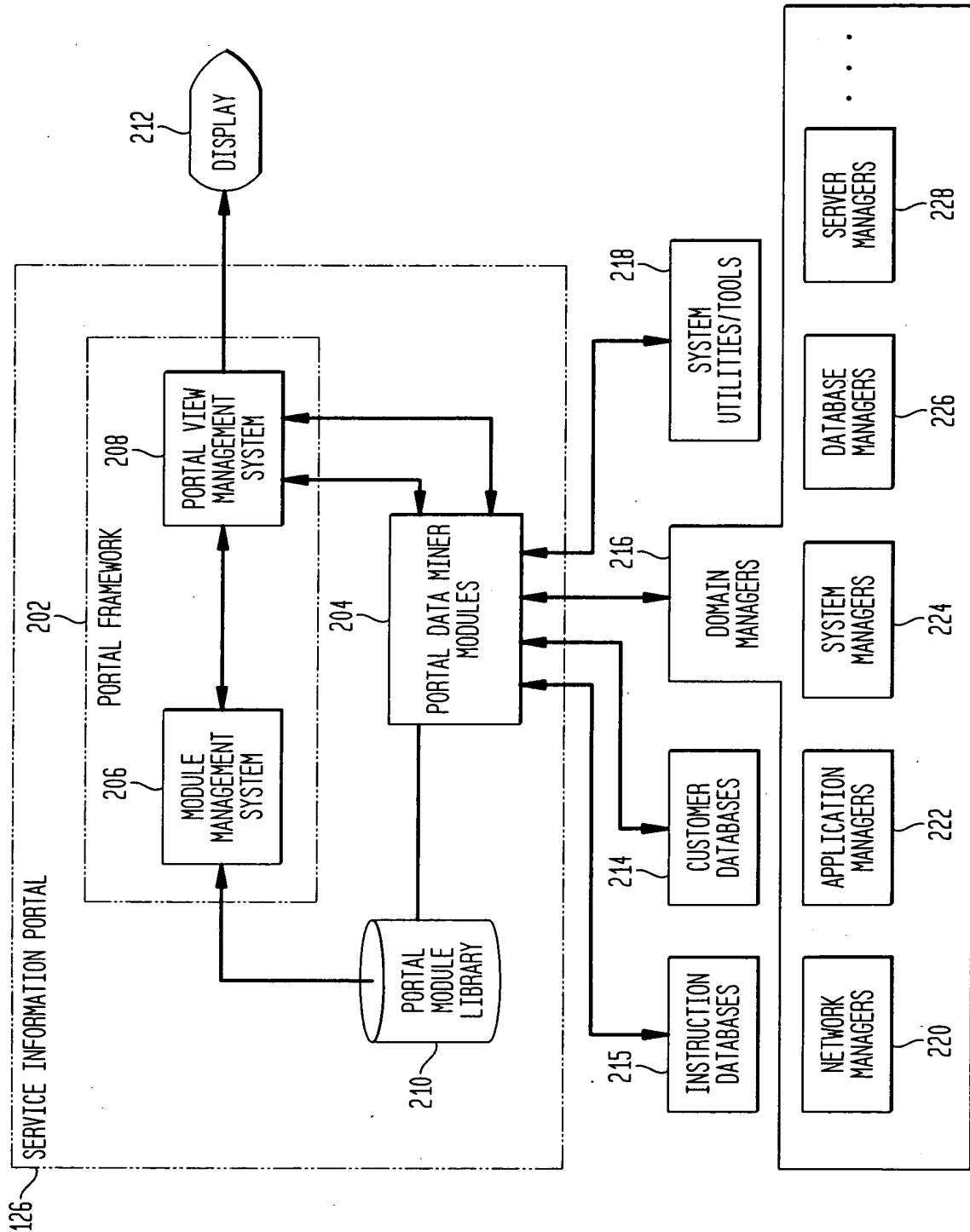
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FIG. 1



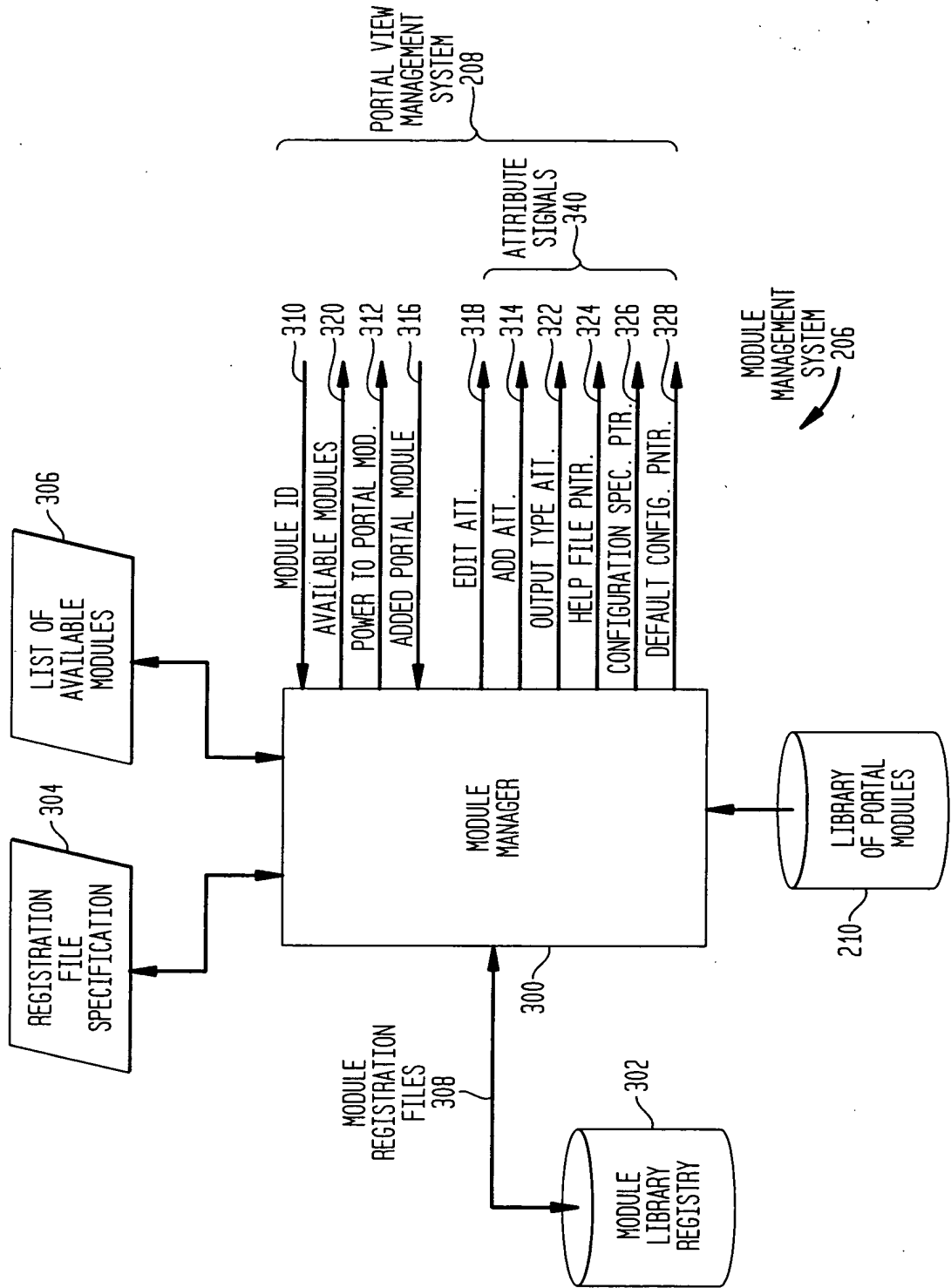
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FIG. 2



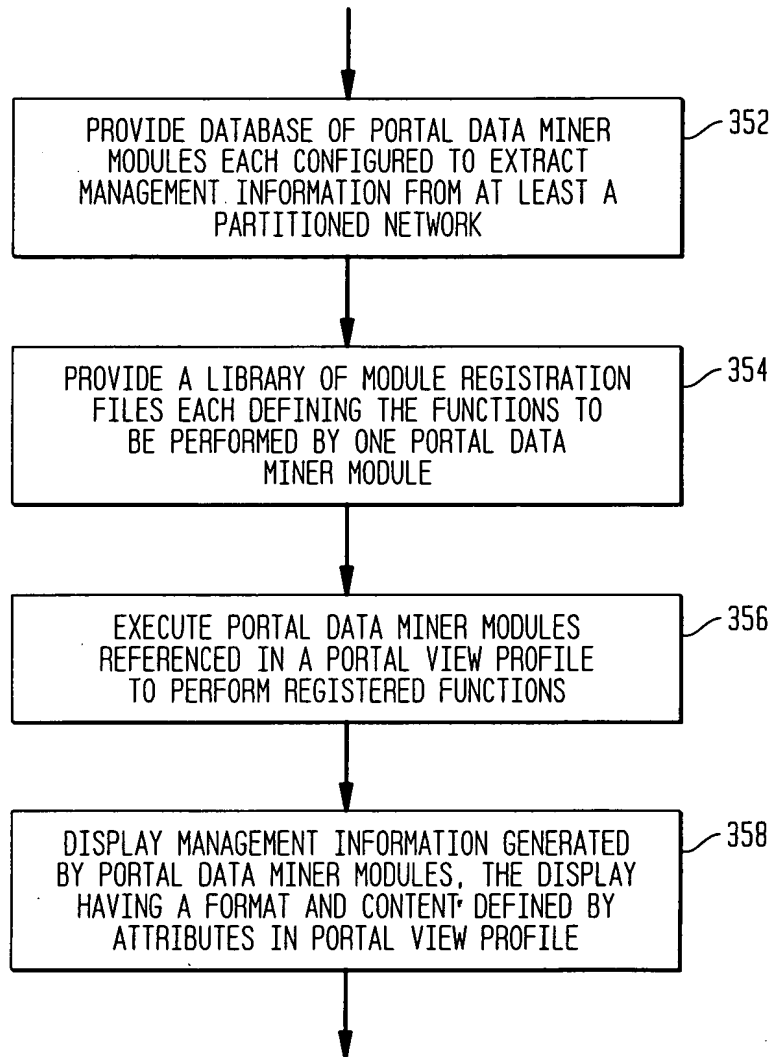
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FIG. 3A



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FIG. 3B



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FIG. 4

MODULE REGISTRATION  
FILE SPECIFICATION  
400

```
1  <!-- OVMModuleRegistration.dtd -->
2  <!-- Copyright (c) 2000 Hewlett-Packard
3  Company -->
4  <!-- $Revision: /main/BACCHUS/8 $ -->
5  <!-- $Date: 2001/03/15 00:13 UTC $ -->
6  -----
7  <!ELEMENT ModuleRegistration EMPTY>
8
9  <!ATTLIST ModuleRegistration
10      vendorName      CDATA #IMPLIED
11      vendorURL       CDATA #IMPLIED
12      description     CDATA #IMPLIED
13      version         CDATA #IMPLIED
14      category        CDATA "General"
15      title           CDATA #IMPLIED
16      classid         ID #REQUIRED
17      implementation   CDATA #REQUIRED
18      outputType      (narrow|NARROW|wide|WIDE|any|ANY) "narrow"
19      add              (1|0|YES|yes|NO|no) "no"
20      edit             (1|0|YES|yes|NO|no) "no"
21      help            CDATA #IMPLIED
22      configDTD        CDATA #IMPLIED
23      defaultConfigXML CDATA #IMPLIED
24
25
26
```

HEADER  
DATA  
402

404

ATTRIBUTE  
LIST  
406

Inventor(s): Robert Raymond

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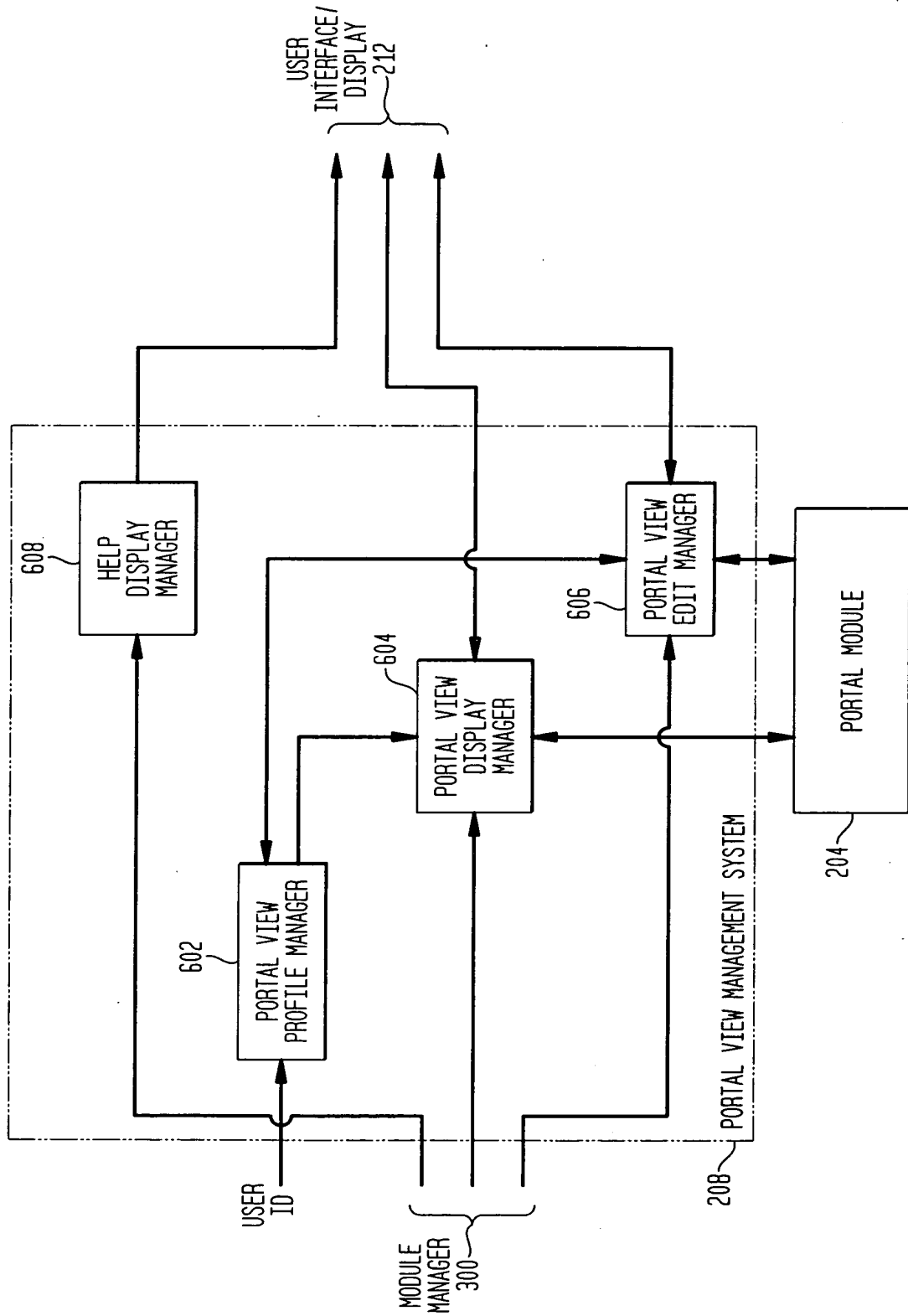
FIG. 5

NETWORK HEALTH MODULE  
REGISTRATION FILE  
500

```
1 <?xml version="1.0" standalone="no"?>
2 <!DOCTYPE ModuleRegistration SYSTEM
3 "OVModuleRegistration.dtd">
4 <ModuleRegistration
5   vendorName  ="Hewlett-Packard
6               Company"
7   vendorURL   ="http://www.
8               openview.hp.com"
9   description ="HP OpenView SIP Network
10              Device Health Module"
11   version     ="2.0"
12   category    ="NNM"
13   title       ="Network Device
14               Health"
15   classid     ="com.hp.ov.portal.
16               modules.health"
17   implementation
18               ="/servlet/com.hp.ov.
19               portal.modules.health.
20               HealthServlet"
21   outputType  ="narrow"
22   add         ="yes"
23   edit        ="yes"
24   help        ="/OvSipDocs/C/help/
25               NNM/healthView.html"
26   configDTD   ="OVNetworkHealth.dtd"
27   defaultConfigXML
28               ="defaults/
29               OVDefaultNetHealth.
30               xml"
31 />
```

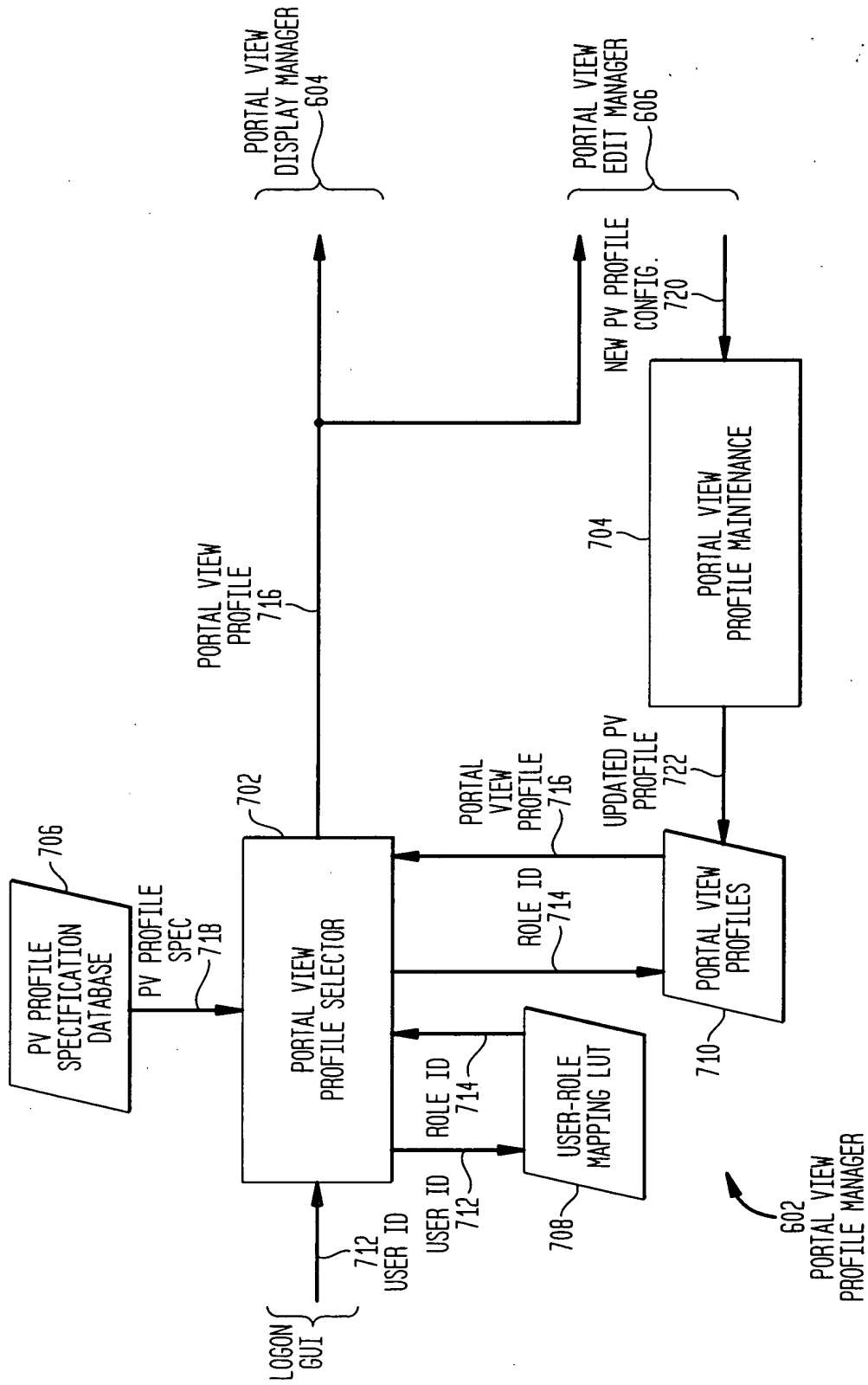
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FIG. 6



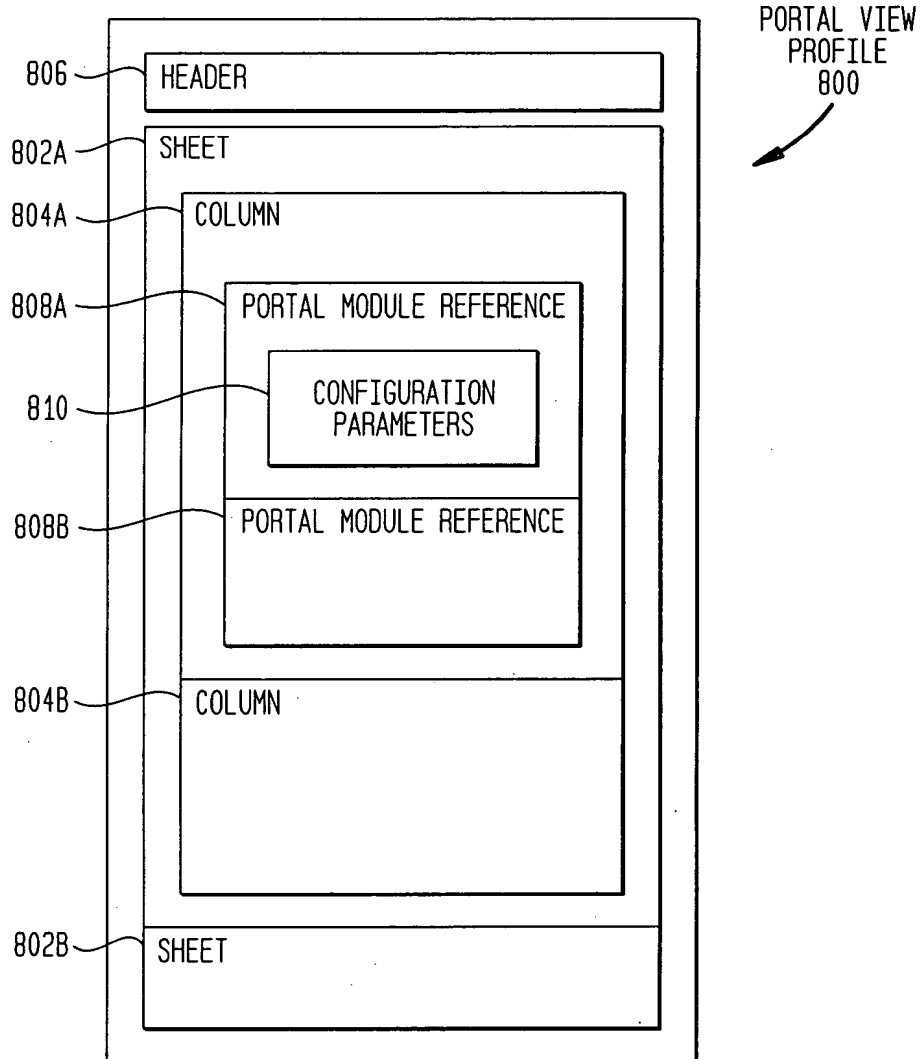
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FIG. 7



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FIG. 8



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FIG. 9

NETWORK HEALTH PORTAL  
VIEW PROFILE SPECIFICATION

900

```
1 <!-- OVNetworkHealth.dtd
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company
4 <!-- $Revision: /main/BACCHUS/7 $
5 <!-- $Date: 2001/04/11 20:41 UTC $
6 <!--
7 <!ELEMENT NetworkHealth (Summary+)>
8 <!ATTLIST NetworkHealth
9     showRawData      (yes|no|YES|NO|1|0) "no"
10    showUnknown      (yes|no|YES|NO|1|0) "no"
11 >
12
13 <!ELEMENT Summary (Component+,
14 (NodeSelection | InterfaceSelection))>
15 <!ATTLIST Summary
16     id              CDATA #REQUIRED
17     title            CDATA #REQUIRED
18     display          (yes|no|YES|NO|1|0) "yes"
19     displayDepth     (1|2|3) "3"
20 >
```

HEADER  
902

NETWORK HEALTH  
ELEMENT SPEC.  
904

SUMMARY ELEMENT  
SPEC.  
906

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*FIG. 10*

FIGURE 10A
FIGURE 10B
FIGURE 10C
FIGURE 10D
FIGURE 10E
FIGURE 10F
FIGURE 10G

Inventor(s): Robert Raymond

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FIG. 10A

PORTAL  
VIEW PROFILE  
1000

1	<?xml version="1.0" encoding="UTF-8"?>	HEADER
2	<!DOCTYPE PortalView SYSTEM	1002
3	"../PortalView.dtd">	
4	<PortalView	PORTAL VIEW
5	colorScheme="/OvSipDocs/styles/default.css"	WINDOW
6	defaultSheetID="NetworkSheet"	ATTRIBUTES
7	refreshRate="5000" showDateTime="yes"	1004
8	showUserName="yes" userName="Any User">	
9	<Sheet id="NetworkSheet" title="Network">	
10	<Column width="narrow">	
11	<ModuleInstance	PORTAL MODULE
12	classid="com.hp.ov.portal.modules.health"	REFERENCE
13	display="yes" id="NetworkHealth"	1006A
14	rollupState="down">	
15	<NetworkHealth showRawData="no"	
16	showUnknown="no">	
17	<Summary display="no"	
18	displayDepth="3" id="InterfaceHealth"	
19	title="Interface Health">	
20	<Component href="#IfStatus"	
21	vital="yes" weight="2"/>	
22	<Component href="#IfUtil"	
23	vital="no" weight="1"/>	
24	<Component href="#IfInErrors"	
25	vital="no" weight="1"/>	
26	<Component	
27	href="#IfOutErrors" vital="no" weight="1"/>	
28	<InterfaceSelection	
29	id="AllInterfaces" op="AND" title="All	
30	Interfaces"/>	
31	</Summary>	

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FIG. 10B

PORTAL  
VIEW PROFILE  
1000

PORTAL MODULE  
REFERENCE  
1006A (CONT)

```
32      <Summary display="yes"
33 displayDepth="3" id="RouterHealth"
34 title="Router Health">
35      <Component href="#IfHealth"
36 vital="no" weight="1"/>
37      <Component
38 href="#CiscoCpuUtil" vital="no" weight="1"/>
39      <NodeSelection id="Routers"
40 op="AND" title="Routers">
41      <CapabilityFilter op="OR">
42      <Capability
43 field="isRouter" value="true"/>
44      </CapabilityFilter>
45      </NodeSelection>
46      </Summary>
47      <Summary display="no"
48 displayDepth="3" id="KeyDeviceHealth"
49 title="Key Device Health">
50      <Component href="#IfHealth"
51 vital="no" weight="1"/>
52      <NodeSelection
53 id="KeyDevices" op="AND" title="Key Devices">
54      <CapabilityFilter op="OR">
55      <Capability
56 field="isKeyDevice" value="true"/>
57      </CapabilityFilter>
58      </NodeSelection>
59      </Summary>
```

Inventor(s): Robert Raymond

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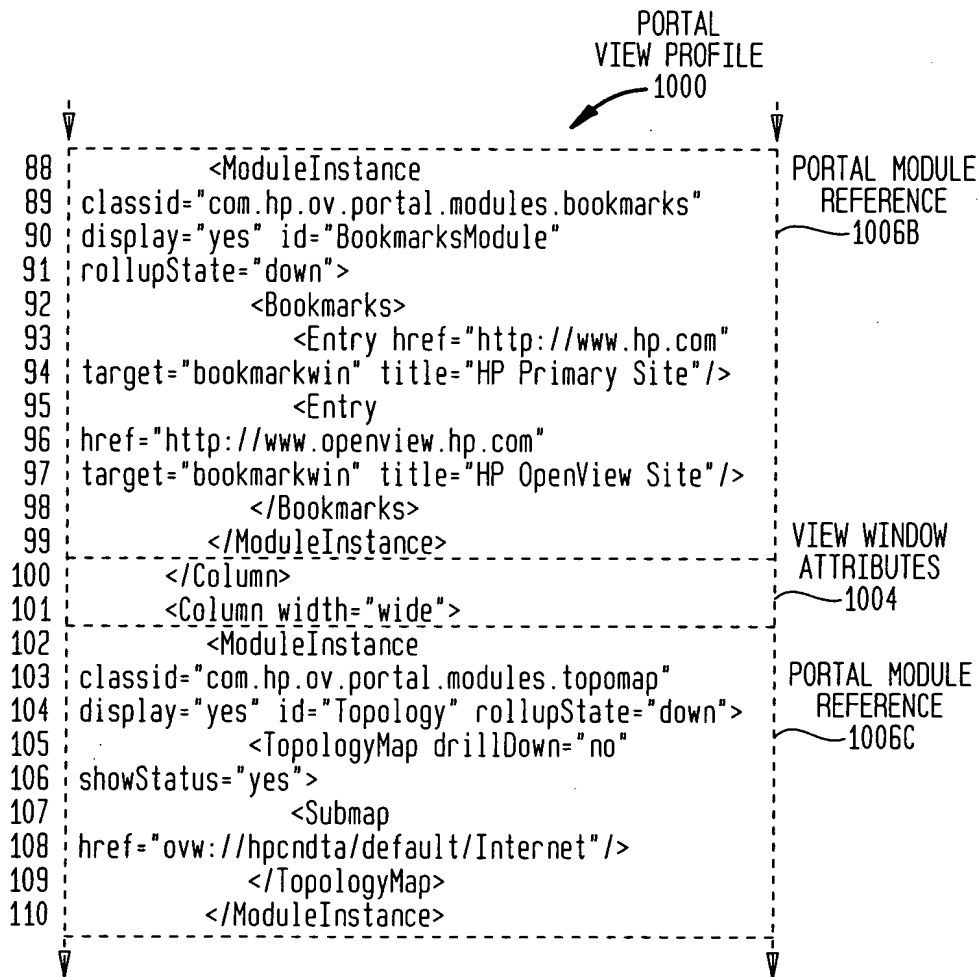
FIG. 10C

PORTAL  
VIEW PROFILE  
1000

PORTAL MODULE  
REFERENCE  
1006A (CONT)

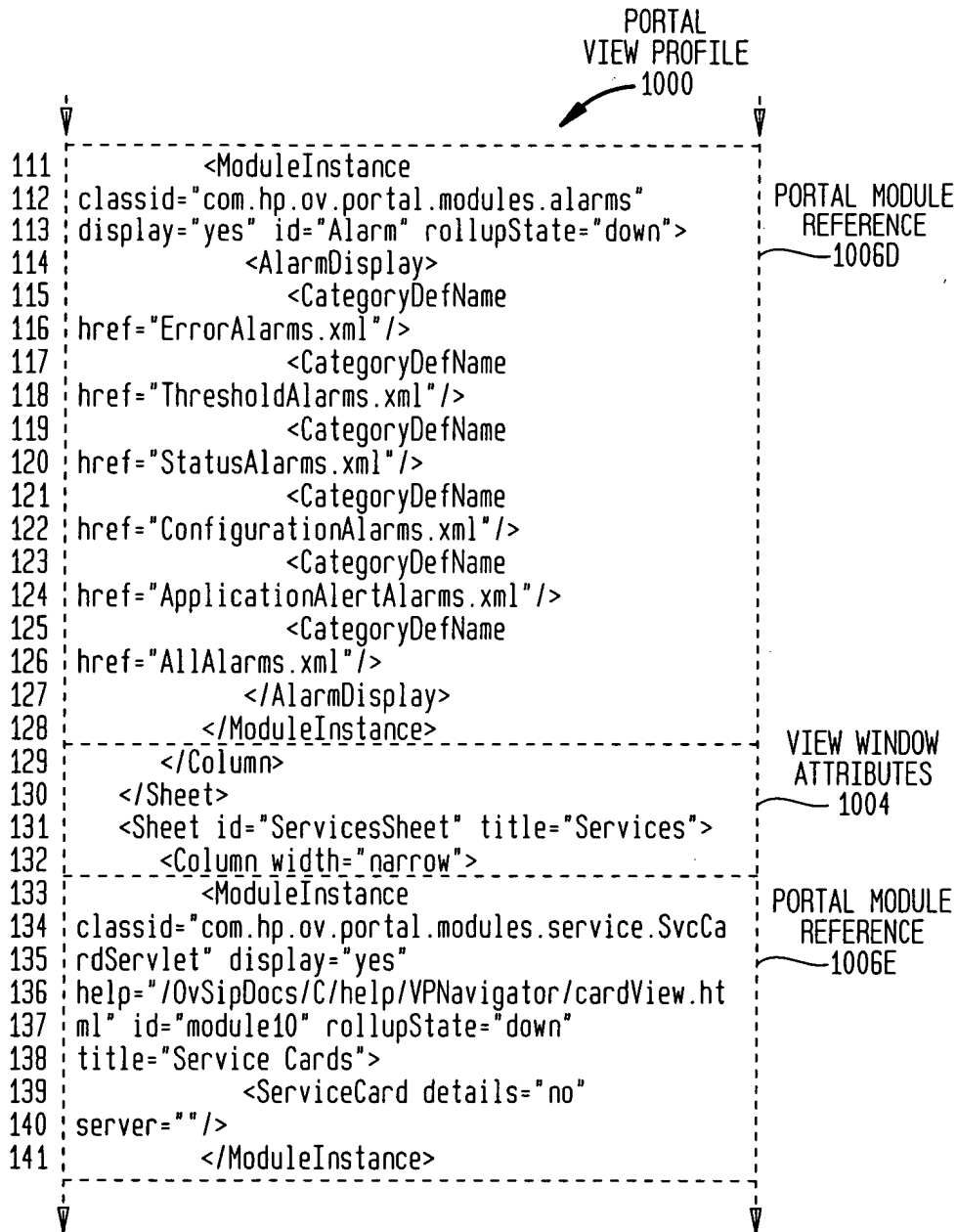
```
60      <Summary display="no"
61 displayDepth="3" id="CPEHealth" title="CPE
62 Health">
63      <Component href="#IfHealth"
64 vital="no" weight="1"/>
65      <NodeSelection id="CPE"
66 op="AND" title="Customer Premise Equipment">
67      <CapabilityFilter op="OR">
68      <Capability
69 field="isCPE" value="true"/>
70      </CapabilityFilter>
71      </NodeSelection>
72      </Summary>
73      <Summary display="no"
74 displayDepth="3" id="ServerHealth"
75 title="Server Health">
76      <Component href="#IfHealth"
77 vital="no" weight="1"/>
78      <NodeSelection id="Servers"
79 op="AND" title="Servers">
80      <CapabilityFilter op="OR">
81      <Capability
82 field="isServer" value="true"/>
83      </CapabilityFilter>
84      </NodeSelection>
85      </Summary>
86      </NetworkHealth>
87      </ModuleInstance>
```

FIG. 10D



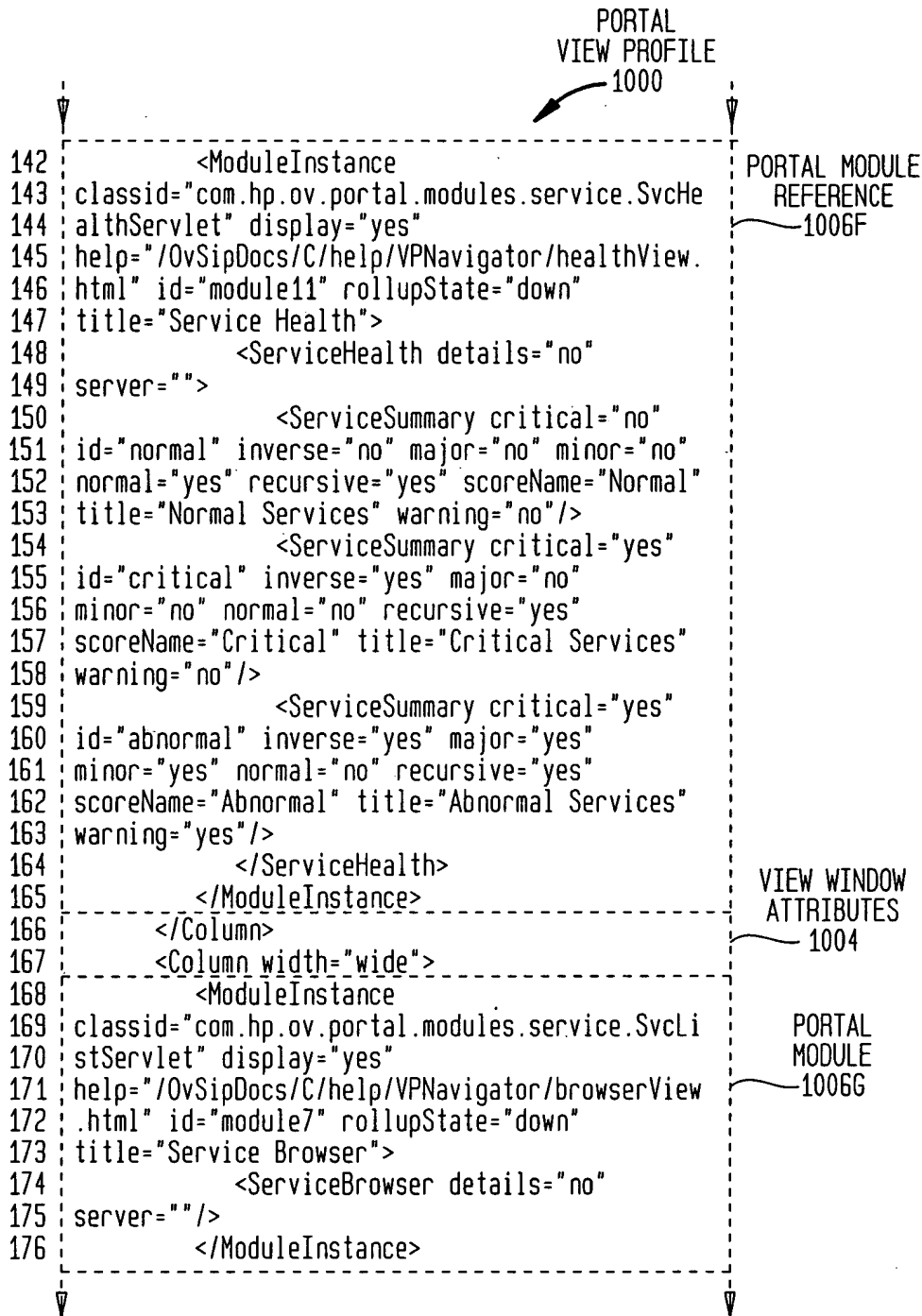
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FIG. 10E



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FIG. 10F



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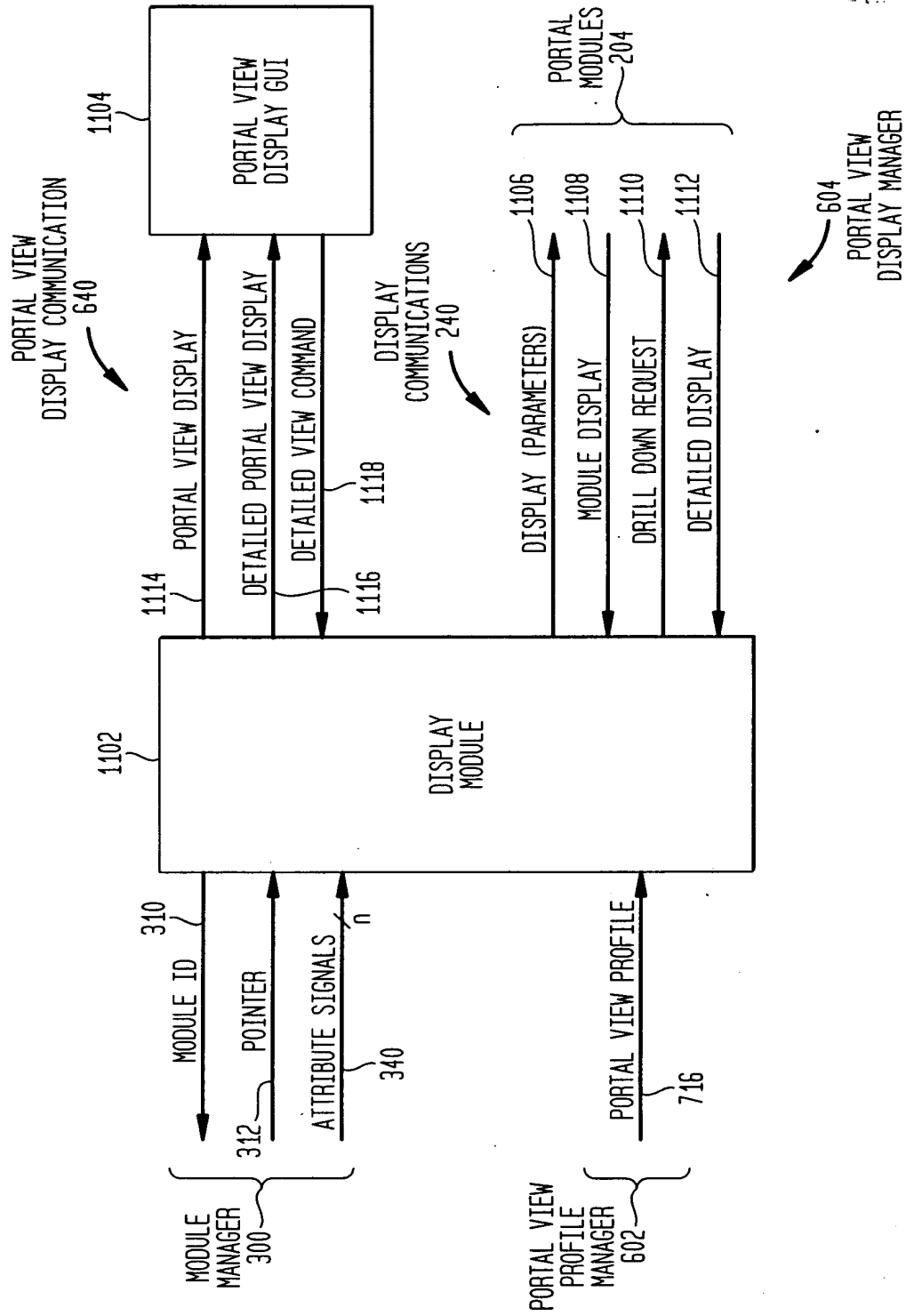
FIG. 10G

PORTAL  
VIEW PROFILE  
1000

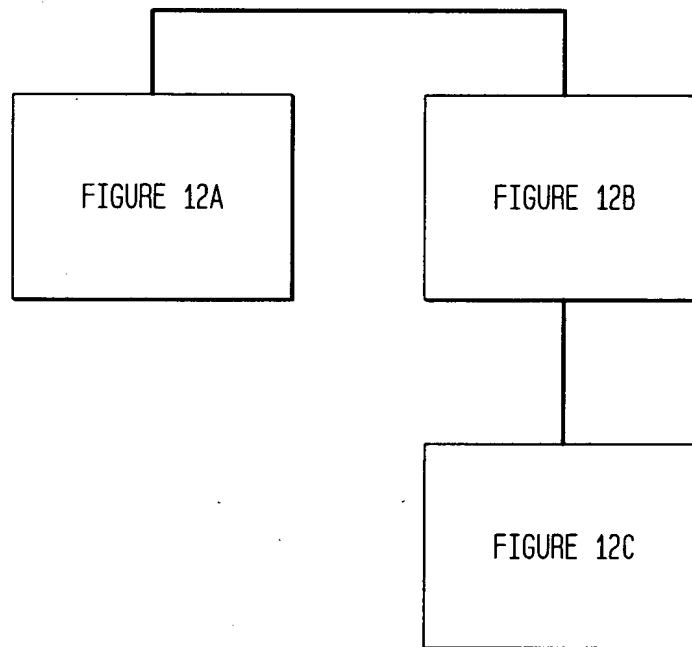
177	<ModuleInstance	
178	classid="com.hp.ov.portal.modules.service.SvcGr	
179	aphServlet" display="yes"	
180	help="/OvSipDocs/C/help/VPNavigator/graphView.h	PORTAL MODULE
181	tml" id="module8" rollupState="down"	REFERENCE
182	title="Service Graph">	1006H
183	<ServiceGraph server="" />	
184	</ModuleInstance>	
185	</Column>	VIEW WINDOW
186	</Sheet>	ATTRIBUTES
187	</PortalView>	1004

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FIG. 11



*FIG. 12*



**FIG. 12A**

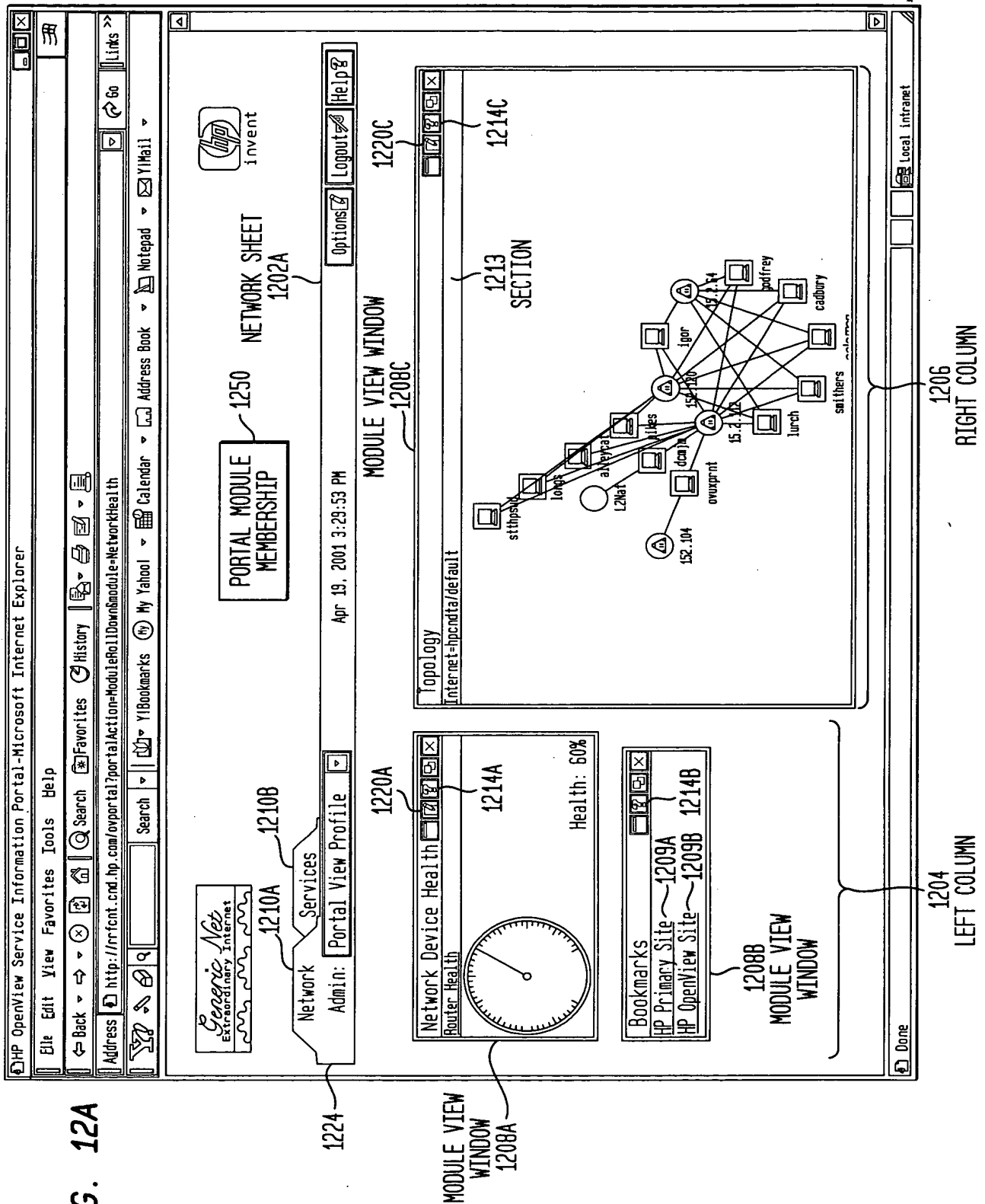


FIG. 12B

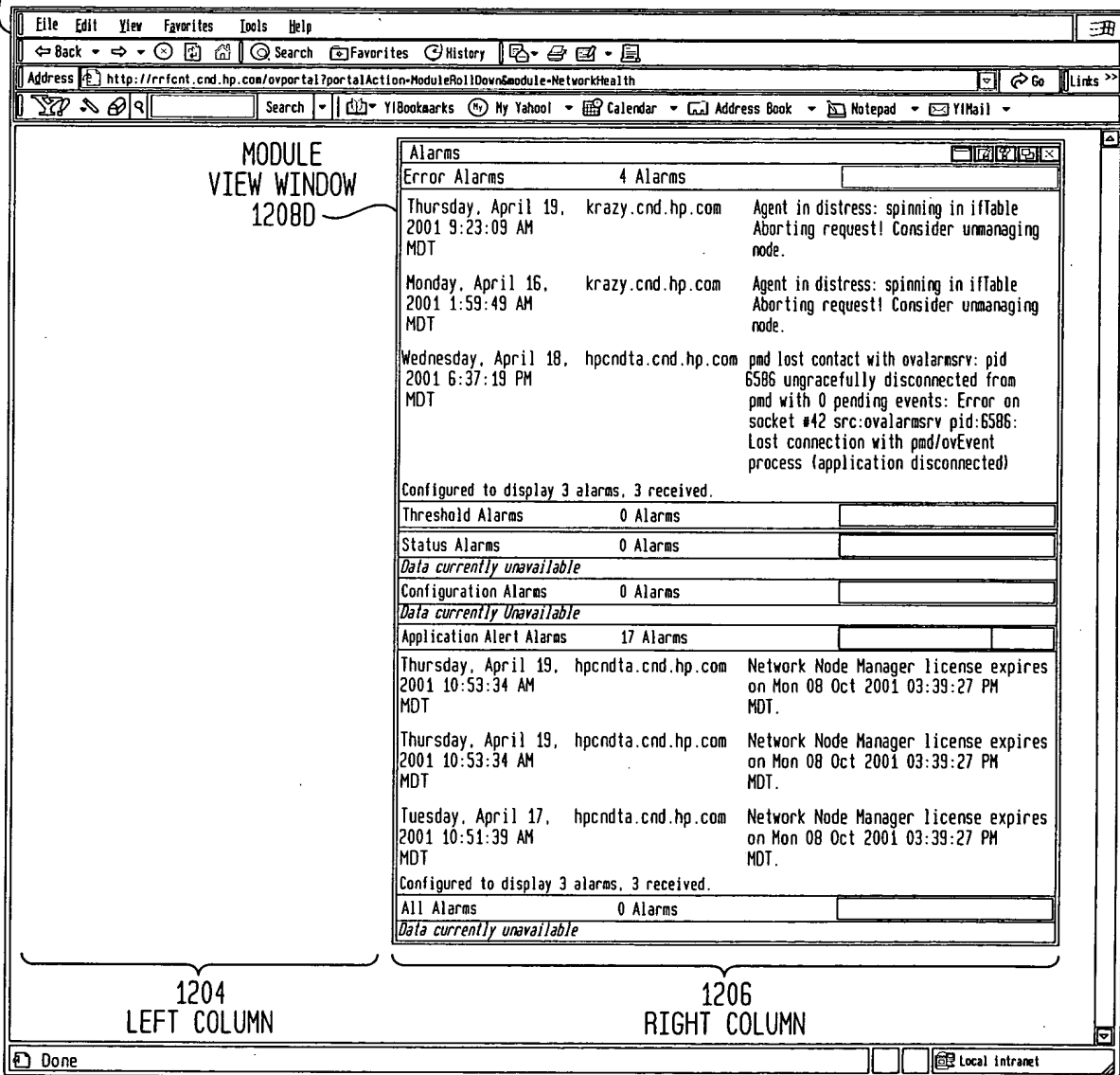
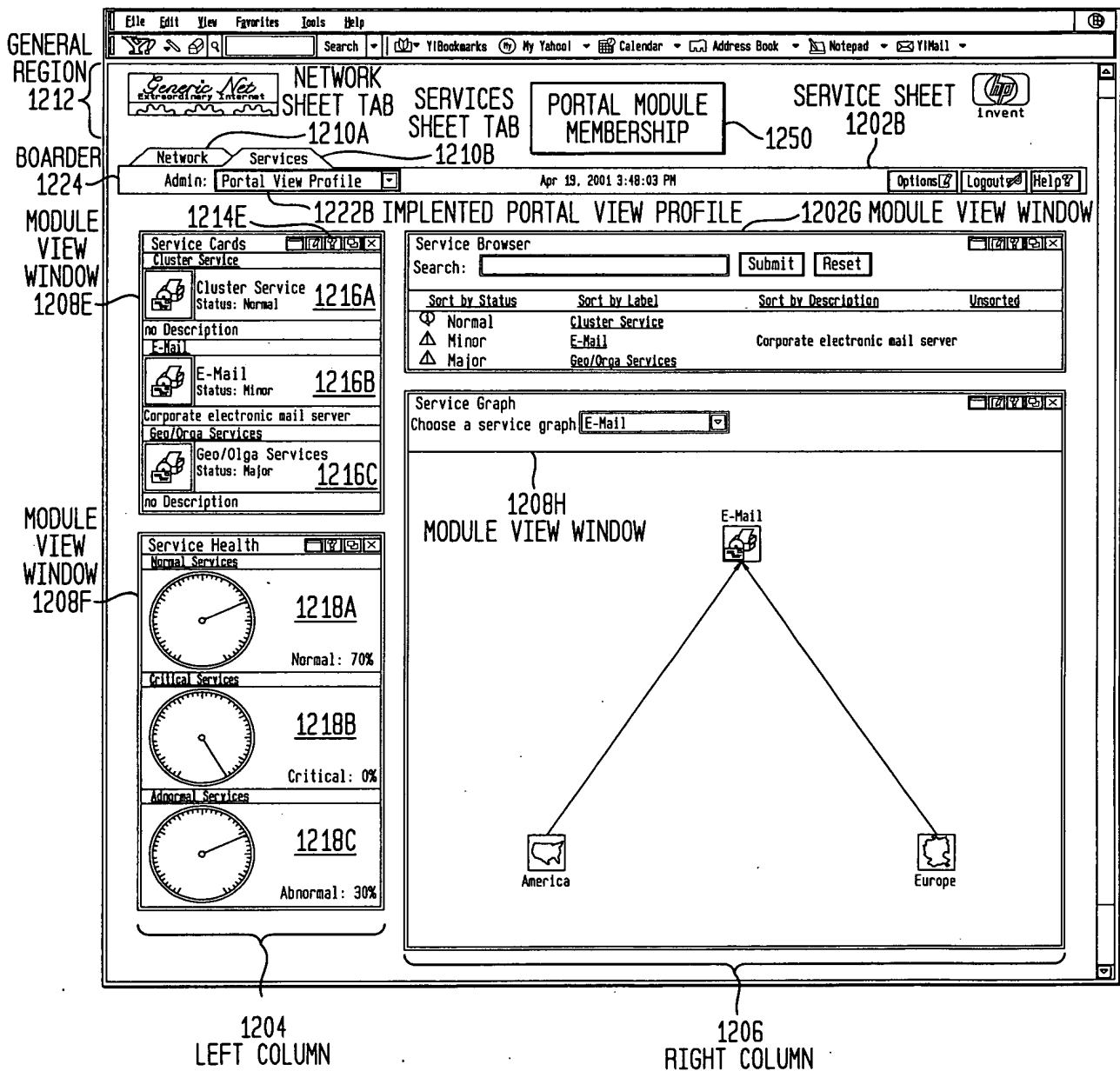
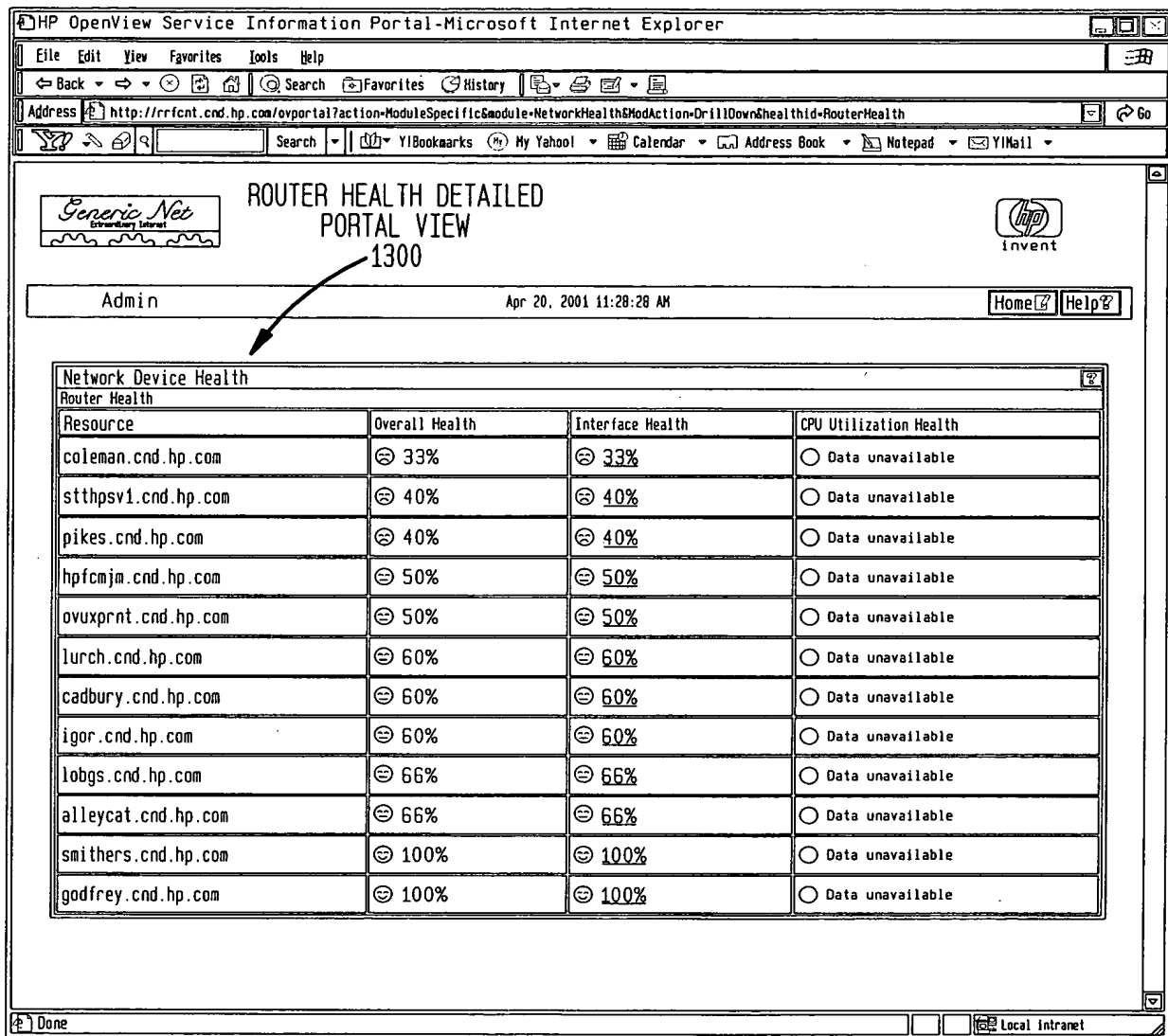
NETWORK  
SHEET  
(CONT)  
1202A

FIG. 12C



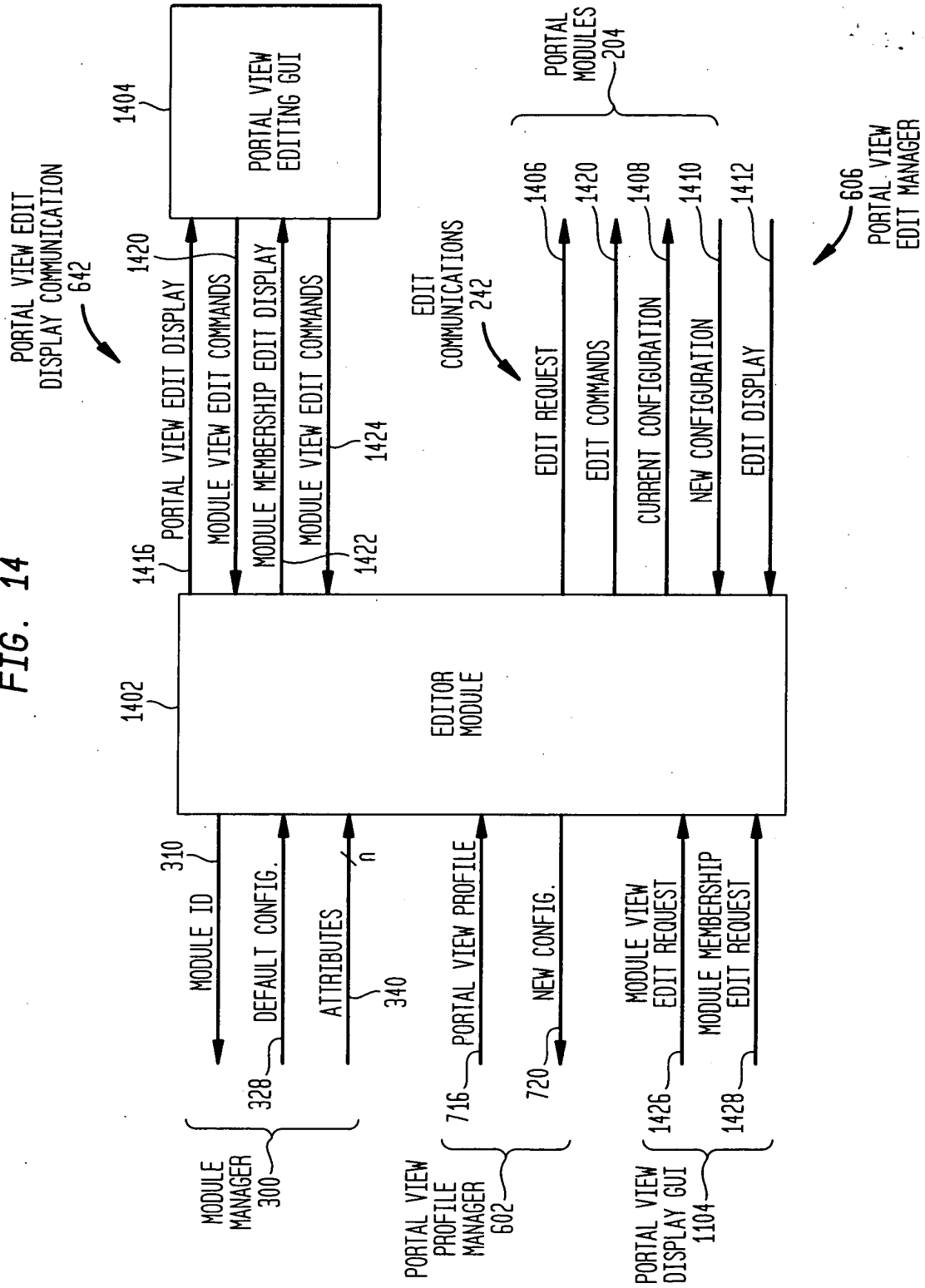
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FIG. 13



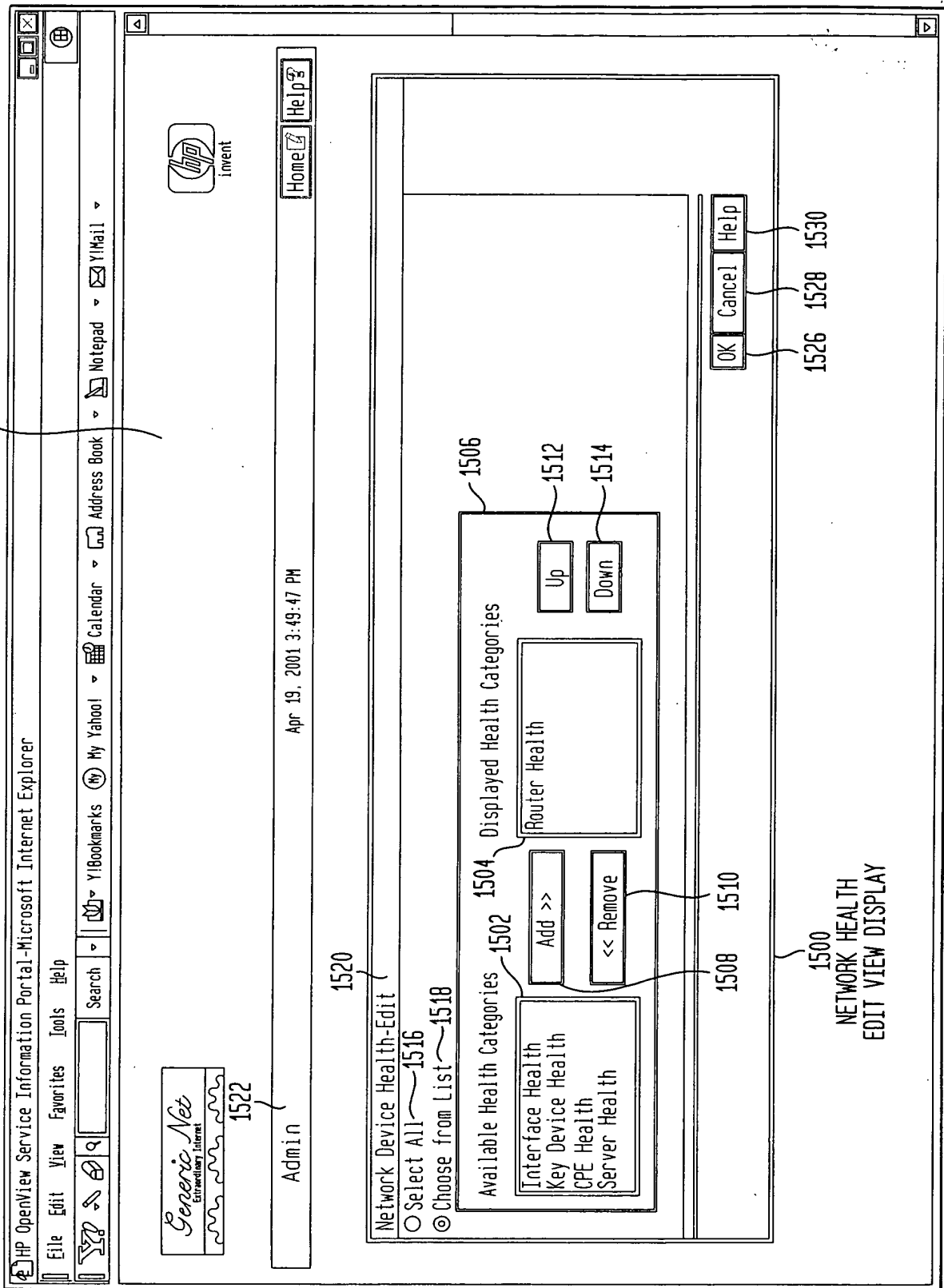
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FIG. 14



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FIG. 15 1524



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FIG. 16

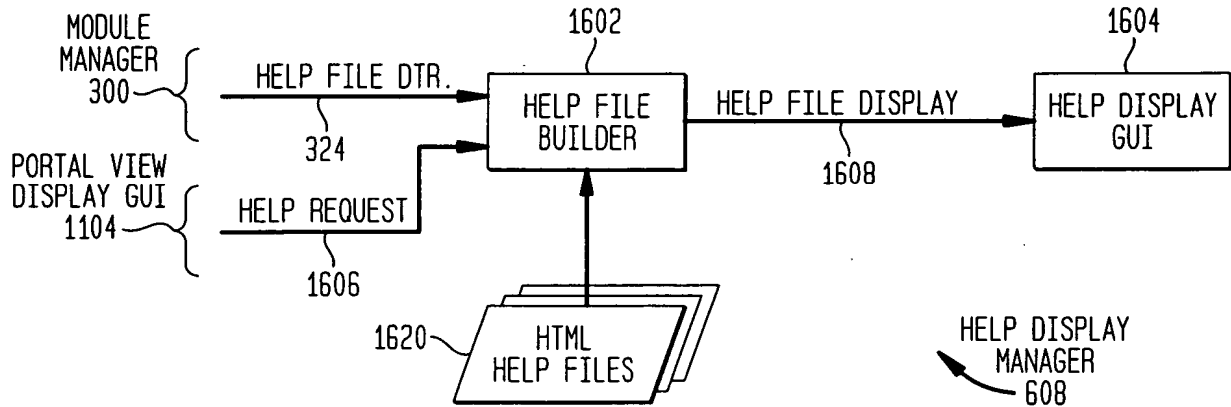
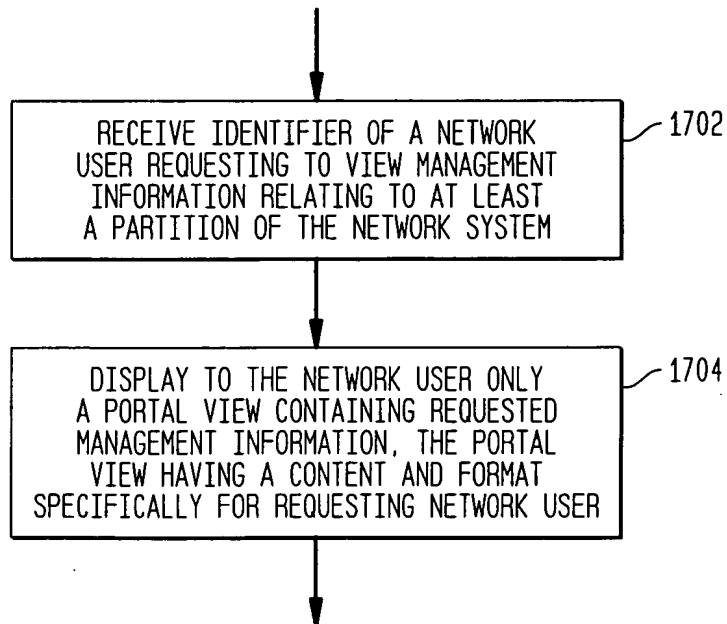
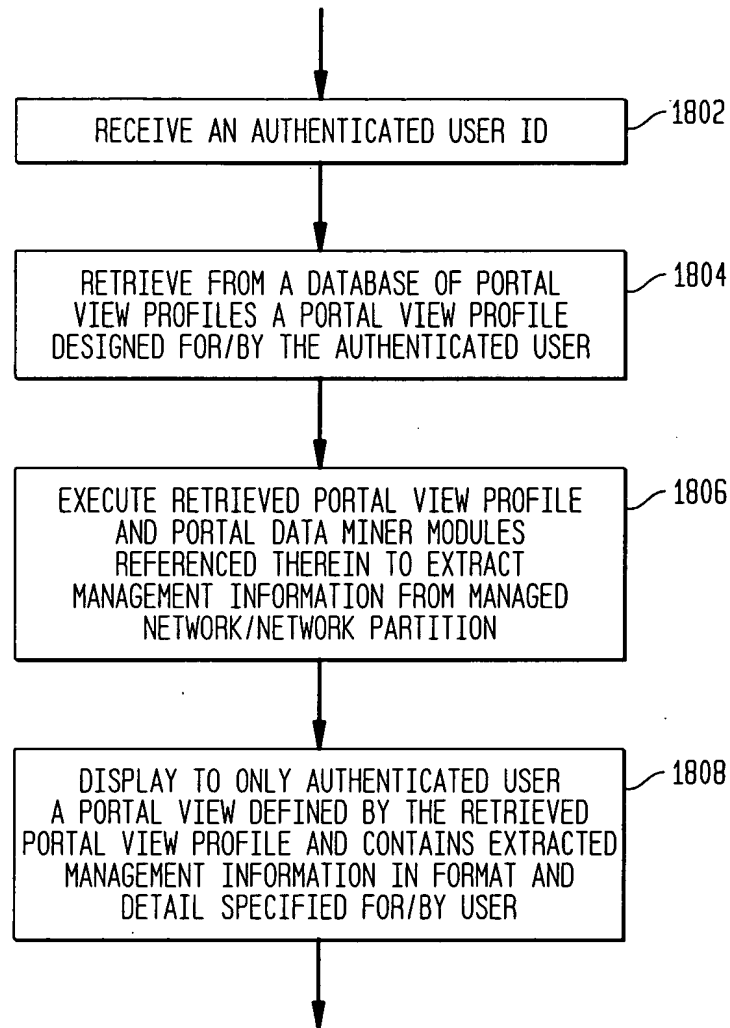


FIG. 17



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FIG. 18



Inventor(s): Robert Raymond

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FIG. 19

